Polymex RO, UF
& NF Membranes



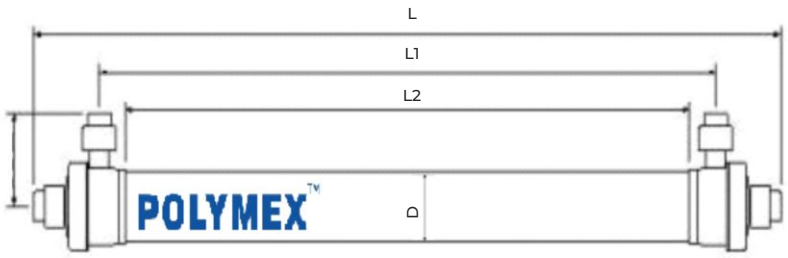
POLYMEX™

Product Data Sheet

Polymex Flex 40

Hollow Fiber UF Membrane Module

POLYMEX Flex 40 Series is an ultrafiltration module, used for production of process and potable water. Typical applications are the filtration of surface water, potable water and WWTP effluent. Mode of operation is feed-and-bleed with a minor crossflow or dead-end mode with regular backwash (permeate only) and chemically enhanced backwash.



Product Dimensions & Specification

Model	Length L, L1 inch (mm)	Length L2, L3 Inch(mm)	Diameter D Inch(mm)	Width W1 , W2	Effective Membrane Area, ft² (m²)	Flow Configuration	Flow L/H (1.5 Kg/cm², 25°C)
Flex 40	74.84(1901)	68.42(1738)	60.51(1537.5)	8.66(200)	430(40)	Inside Out	2000 - 4800

Filtration Peformance

Ingredient	Effect
SS, Particles > 1µm	Removal Rate = 99%
SDI	≤ 3
Bacteria, Viruses	> 4 log
Turbidity	< 1NTU
TOC	Removal Rate: 0-25%

Technical Parameters

Ingredient	Effect
Filtering Type	Inside-Out
Membrane Material	PES
MWCO	100K Dalton
Membrane Area	40m² (431 ft²)

Application Data

Operating Flux	50-120L/m².hr (1.5 Kg/cm², 25°C)
Backwash Flux	100-200L/m².hr (1.5 Kg/cm², 25°C)
Suggested Working Pressure	≤ 3.0 Kg/cm²
Maximum Transmembrane Pressure	3.0 Kg/cm²
Maximum Backwashing Pressure	3.0 Kg/cm²
Air Washing Volume	0.1-0.15N m³/m².hr
Air Washing Pressure	≤ 1.0 Kg/cm²
Maximum Working Temperature	35°C
PH Range	Working: 4-10; Washing: 2-12
Operating Mode	Cross Flow or Dead End

Operating Parameters

Backwashing Frequency	Every 30-60min.
Backwashing Duration	30-60s
CEB Frequency	0-4 times per day
CEB Duration	5-10min.
CIP Frequency	Every 1-3 months
Sterilization	15ppm Sodium Hypochlorite
Organic Pollution Washing	0.2% Sodium Hypochlorite + 0.1% Sodium Hydroxide
Inorganic Pollution Washing	1-2% Citric Acid/0.2% Hydrochloric Acid

Product Highlights

- Drinking water treatment of tap water, surface water, well water and river water.
- Pre-treatment for RO.
- High strength, hollow fibre membranes
- Treatment, recycle and reuse of industrial waste water.
- Moderate removal rate of organic maters with High flux.

*At the Inlet of this membrane <5 µm Filter should be Provided to prevent blockage of membrane by large particles in Feed Water.